



10/506421

10/506421

cc/c

Docket No.: HOK-0243  
(PATENT)

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In re Letters Patent of:

Confirmation No.: 1262

Katsuyuki TANAKA et al.

Patent No.: 7,194,890

Issued: March 27, 2007

For: GAS CHROMATOGRAPH, AND BREATH  
COMPONENT ANALYZER USING THE SAME

REQUEST FOR CERTIFICATE OF CORRECTION

Attention: Certificate of Correction Branch  
Commissioner for Patents  
P.O. Box 1450  
Alexandria, VA 22313-1450

Dear Sir:

It is respectfully requested that a Certificate of Correction be issued in connection with the above-identified patent. It appears that a mistake was recorded through the fault of the Patent and Trademark Office in the printing of the patent as clearly disclosed by the records of the Office within the meaning of 35 USC § 254. Accordingly, two copies of the special Certificate of Correction are attached hereto. It is believed that the error noted is an error of consequence involving the title of the invention and thus warrants the granting of a Certificate of Correction. Copies of the first page of the application showing the correct title, the declaration showing the correct title, and the Official Filing Receipt with the correct title are enclosed for the convenience of the PTO. It is believed that the error was made on the part of the PTO and that no government fee is required.

Should any costs be incurred, please consider this authorization to charge Deposit Account No. 18-0013.

Dated: May 17, 2007

Respectfully submitted,

By

Lee Cheng

Registration No.: 40,949

RADER, FISHMAN & GRAUER PLLC

1233 20th Street, N.W., Suite 501

Washington, DC 20036

(202) 955-3750

Attorney for Applicant

Certificate  
MAY 21 2007  
of Correction

MAY 21 2007

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 7,194,890

DATED : March 27, 2007

INVENTOR(S): Katsuyuki TANAKA et al

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

**Title Page:**

Item (54) should be read as follows:

-- GAS CHROMATOGRAPH, AND BREATH COMPONENT ANALYZER USING THE SAME --.

MAILING ADDRESS OF SENDER:

Customer No. 23353  
**Rader, Fishman & Grauer PLLC**  
1233 20<sup>th</sup> Street, NW  
Suite 501  
Washington, DC 20036

PATENT NO. 7,194,890

**MAY 21 2007**

UNITED STATES PATENT AND TRADEMARK OFFICE  
**CERTIFICATE OF CORRECTION**

PATENT NO. : 7,194,890

DATED : March 27, 2007

INVENTOR(S): Katsuyuki TANAKA et al

It is certified that error appears in the above-identified patent and that said Letters Patent is hereby corrected as shown below:

**Title Page:**

Item (54) should be read as follows:

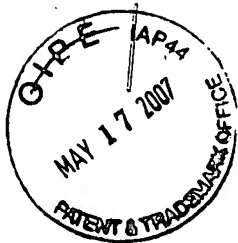
-- GAS CHROMATOGRAPH, AND BREATH COMPONENT ANALYZER USING THE SAME --.

MAILING ADDRESS OF SENDER:

Customer No. 23353  
**Rader, Fishman & Grauer PLLC**  
1233 20<sup>th</sup> Street, NW  
Suite 501  
Washington, DC 20036

PATENT NO. 7,194,890

**MAY 21 2007**



## DESCRIPTION

GAS CHROMATOGRAPH, AND BREATH COMPONENT ANALYZER USING  
THE SAME

## 5 TECHNICAL FIELD

The present invention relates to a gas chromatograph, which is widely available for qualitative/quantitative analysis of a component in a subject gas, and a breath component analyzer using the same.

## BACKGROUND ART

10 A gas chromatograph provides a gas chromatogram, which is prepared by introducing a subject gas to be detected together with a carrier gas into a gas separation column having a filling material therein, separating a gas component from the subject gas according to a deference in retention time caused by the interaction between the subject gas and the filling material in the  
15 gas separation column, and then detecting the separated gas component by a detector such as thermal conductivity detector (TCD) or flame ionization detector (FID).

At this time, since the retention time of the gas component in the gas separation column depends on temperature, the gas separation column is  
20 placed in a thermostatic chamber, and kept at an elevated temperature, so that the retention time of the gas component in the gas separation column can be maintained constant. As a result, accurate measurement becomes possible.

FIG. 14 is a schematic diagram showing this kind of gas chromatograph 6. A flow amount of a carrier gas supplied from a gas cylinder 7 through a gas  
25 flow channel 8 is controlled by a flow regulator 9. After the flow amount is detected by a flow sensor 10, a subject gas to be measured is supplied from a gas injection port 11, so that a mixture gas of the carrier gas and the subject gas is introduced into a gas separation column 1. The gas separation column 1 is placed in a thermostatic chamber 30, and kept constant at an elevated  
30 temperature. The gas provided from the gas separation column 1 is detected

MAY 21 2007



Under the Paperwork Reduction Act of 1995, no persons are required to respond to a collection of information unless it displays a valid OMB control number.

## Declaration and Power of Attorney for Patent Application

### 特許出願宣言書及び委任状

#### Japanese Language Declaration

#### 日本語宣言書

私は、以下に記名された発明者として、ここに下記の通り宣言する：

As a below named inventor, I hereby declare that:

私の住所、郵便の宛先そして国籍は、私の氏名の後に記載された通りである。

My residence, post office address and citizenship are as stated next to my name.

下記の名称の発明について、特許請求範囲に記載され、且つ特許が求められている発明主題に関して、私は、最初、最先且つ唯一の発明者である（唯一の氏名が記載されている場合）か、或いは最初、最先且つ共同発明者である（複数の氏名が記載されている場合）と信じている。

I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural names are listed below) of the subject matter which is claimed and for which a patent is sought on the invention entitled

GAS CHROMATOGRAPH, AND BREATH COMPONENT

ANALYZER USING THE SAME

上記発明の明細書はここに添付されているが、下記の欄がチェックされている場合は、この限りでない：

the specification of which is attached hereto unless the following box is checked:

☐ \_\_\_\_\_ の日に出版され、  
この出版の米国出版番号またはPCT国際出版番号は、  
\_\_\_\_\_ であり、且つ  
\_\_\_\_\_ の日に補正された出版（該当する場合）

☒ was filed on February 20, 2003  
as United States Application Number or  
PCT International Application Number  
PCT/JPO3/01891 and was amended on  
\_\_\_\_\_ (if applicable).

私は、上記の補正窓によって補正された、特許請求範囲を含む上記明細書を検討し、且つ内容を理解していることをここに表明する。

I hereby state that I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above.

私は、連邦規則法典第37編規則1.56に定義されている、特許性について重要な情報を開示する義務があることを認める。

I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56.

Burden Hour Statement: This form is estimated to take 0.4 hours to complete. Time will vary depending upon the need of the individual case. Any comments on the amount of time you are required to complete this form should be sent to Chief Information Officer, U.S. Patent and Trademark Office, Washington, DC 20231. DO NOT SEND FEES OR COMPLETED FORMS TO THIS ADDRESS. SEND TO: Commissioner of Patents and Trademarks, Washington, DC 20231.



## UNITED STATES PATENT AND TRADEMARK OFFICE



UNITED STATES DEPARTMENT OF COMMERCE  
 United States Patent and Trademark Office  
 Address: COMMISSIONER FOR PATENTS  
 P.O. Box 1450  
 Alexandria, Virginia 22313-1450  
 www.uspto.gov

APPL NO.	FILING OR 371 (c) DATE	ART UNIT	FIL FEE REC'D	ATTY. DOCKET NO	DRAWINGS	TOT CLMS	IND CLMS
10/506,421	03/11/2005	2855	1050	HOK-0243	8	12	2

CONFIRMATION NO. 1262 ✓

23353  
 RADER FISHMAN & GRAUER PLLC  
 LION BUILDING  
 1233 20TH STREET N.W., SUITE 501  
 WASHINGTON, DC 20036

## CORRECTED FILING RECEIPT



\*OC000000022037212\*

Date Mailed: 01/18/2007

Receipt is acknowledged of this regular Patent Application. It will be considered in its order and you will be notified as to the results of the examination. Be sure to provide the U.S. APPLICATION NUMBER, FILING DATE, NAME OF APPLICANT, and TITLE OF INVENTION when inquiring about this application. Fees transmitted by check or draft are subject to collection. Please verify the accuracy of the data presented on this receipt. If an error is noted on this Filing Receipt, please mail to the Commissioner for Patents P.O. Box 1450 Alexandria Va 22313-1450. Please provide a copy of this Filing Receipt with the changes noted thereon. If you received a "Notice to File Missing Parts" for this application, please submit any corrections to this Filing Receipt with your reply to the Notice. When the USPTO processes the reply to the Notice, the USPTO will generate another Filing Receipt incorporating the requested corrections (if appropriate).

## Applicant(s)

Katsuyuki Tanaka, Suita-shi, JAPAN;  
 Mariko Sugimura, Himeji-shi, JAPAN;  
 Junko Yanagitani, Itami-shi, JAPAN;  
 Noriko Kiyoshi, Kobe-shi, JAPAN;  
 Kazuo Onaga, Osaka-shi, JAPAN;  
 Hiroshi Koda, Sanda-shi, JAPAN;

Power of Attorney: The patent practitioners associated with Customer Number 23353.

## Domestic Priority data as claimed by applicant

This application is a 371 of PCT/JP03/01891 02/20/2003

## Foreign Applications

JAPAN 2002-057885 03/04/2002

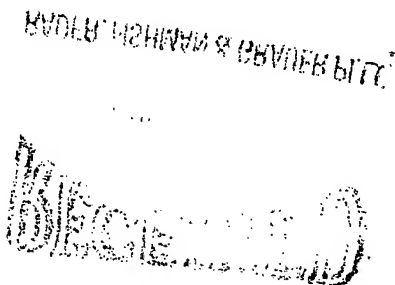
If Required, Foreign Filing License Granted: 01/17/2007

The country code and number of your priority application, to be used for filing abroad under the Paris Convention, is **US10/506,421**

Projected Publication Date: Not Applicable

Non-Publication Request: No

DOCKETED BY



MAY 21 2007

Early Publication Request: No

Title

Gas Chromatograph, and Breath Component Analyzer Using the Same

Preliminary Class

073

## PROTECTING YOUR INVENTION OUTSIDE THE UNITED STATES

Since the rights granted by a U.S. patent extend only throughout the territory of the United States and have no effect in a foreign country, an inventor who wishes patent protection in another country must apply for a patent in a specific country or in regional patent offices. Applicants may wish to consider the filing of an international application under the Patent Cooperation Treaty (PCT). An international (PCT) application generally has the same effect as a regular national patent application in each PCT-member country. The PCT process **simplifies** the filing of patent applications on the same invention in member countries, but **does not result** in a grant of "an international patent" and does not eliminate the need of applicants to file additional documents and fees in countries where patent protection is desired.

Almost every country has its own patent law, and a person desiring a patent in a particular country must make an application for patent in that country in accordance with its particular laws. Since the laws of many countries differ in various respects from the patent law of the United States, applicants are advised to seek guidance from specific foreign countries to ensure that patent rights are not lost prematurely.

Applicants also are advised that in the case of inventions made in the United States, the Director of the USPTO must issue a license before applicants can apply for a patent in a foreign country. The filing of a U.S. patent application serves as a request for a foreign filing license. The application's filing receipt contains further information and guidance as to the status of applicant's license for foreign filing.

Applicants may wish to consult the USPTO booklet, "General Information Concerning Patents" (specifically, the section entitled "Treaties and Foreign Patents") for more information on timeframes and deadlines for filing foreign patent applications. The guide is available either by contacting the USPTO Contact Center at 800-786-9199, or it can be viewed on the USPTO website at <http://www.uspto.gov/web/offices/pac/doc/general/index.html>.

For information on preventing theft of your intellectual property (patents, trademarks and copyrights), you may wish to consult the U.S. Government website, <http://www.stopfakes.gov>. Part of a Department of Commerce initiative, this website includes self-help "toolkits" giving innovators guidance on how to protect intellectual property in specific countries such as China, Korea and Mexico. For questions regarding patent enforcement issues, applicants may call the U.S. Government hotline at 1-866-999-HALT (1-866-999-4158).

---

### LICENSE FOR FOREIGN FILING UNDER Title 35, United States Code, Section 184 Title 37, Code of Federal Regulations, 5.11 & 5.15

#### GRANTED

The applicant has been granted a license under 35 U.S.C. 184, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" followed by a date appears on this form. Such licenses are issued in all applications where the conditions for issuance of a license have been met, regardless of whether or not a license may be required as set forth in 37 CFR 5.15. The scope and limitations of this license are set forth in 37 CFR 5.15(a) unless an earlier license has been issued under 37 CFR 5.15(b). The license is subject to revocation upon written notification. The

MAY 21 2007

date indicated is the effective date of the license, unless an earlier license of similar scope has been granted under 37 CFR 5.13 or 5.14.

This license is to be retained by the licensee and may be used at any time on or after the effective date thereof unless it is revoked. This license is automatically transferred to any related applications(s) filed under 37 CFR 1.53(d). This license is not retroactive.

The grant of a license does not in any way lessen the responsibility of a licensee for the security of the subject matter as imposed by any Government contract or the provisions of existing laws relating to espionage and the national security or the export of technical data. Licensees should apprise themselves of current regulations especially with respect to certain countries, of other agencies, particularly the Office of Defense Trade Controls, Department of State (with respect to Arms, Munitions and Implements of War (22 CFR 121-128)); the Bureau of Industry and Security, Department of Commerce (15 CFR parts 730-774); the Office of Foreign Assets Control, Department of Treasury (31 CFR Parts 500+) and the Department of Energy.

#### **NOT GRANTED**

No license under 35 U.S.C. 184 has been granted at this time, if the phrase "IF REQUIRED, FOREIGN FILING LICENSE GRANTED" DOES NOT appear on this form. Applicant may still petition for a license under 37 CFR 5.12, if a license is desired before the expiration of 6 months from the filing date of the application. If 6 months has lapsed from the filing date of this application and the licensee has not received any indication of a secrecy order under 35 U.S.C. 181, the licensee may foreign file the application pursuant to 37 CFR 5.15(b).

MAY 21 2007